ELSEVIER

Lipids and Lipid Metabolism

Vol. 1214, 1994

BBA Biochimica et Biophysica Acta

Cumulative Contents

Information for Contributors vii

Regular Papers

Expression of human liver fatty acid-binding protein in *Escherichia coli* and comparative analysis of its binding characteristics with muscle fatty acid-binding protein
R.G.H.J. Maatman, H.T.B. Van Moerkerk, I.M.A. Nooren, E.J.J. Van Zoelen and J.H. Veerkamp (The Netherlands) 1

Peroxisomal cholesterol synthesis in vivo: Accumulation of 4-methyl intermediate sterols after aminotriazole inhibition of cholesterol synthesis
F. Hashimoto and H. Hayashi (Japan) 11

The effect of dietary 7-ketocholesterol, inhibitor of sterol synthesis, on hepatic microsomal cholesterol 7α-hydroxylase activity in rat
N. Tamasawa, A. Tamasawa, K. Takebe and M. Hayakari (Japan) 20

Unique localization of fucosyl GM1 in rabbit spinal cord and peripheral nerve: Immunohistochemical study using monoclonal anti-fucosyl GM1 antibody CRD73-6
S. Kusunoki, A. Chiba, T. Shimizu and I. Kanazawa (Japan) 27

Studies on rat liver phosphatidate phosphohydrolase and plasma lipids: Effect of HMG-CoA reductase inhibitors
E. Humble, A. AL-Shurbaji, E. Lund and L. Berglund (Sweden) 32

Coordinate diurnal regulation of hepatic acyl-coenzyme A: cholesterol acyltransferase and cellular levels of esterified cholesterol
A. Szanto, J. Ruys and S. Balasubramaniam (Australia) 39

Screening, purification and properties of a thermophilic lipase from *Bacillus thermocatenulatus*
C. Schmidt-Dannert, H. Sztajer, W. Stöcklein, U. Menge and R.D. Schmid (Germany) 43

Dietary fat alters membrane composition in rod outer segments in normal and diabetic rats: Impact on content of very-long-chain ($C \geq 24$) polyenoic fatty acids
M. Suh, A.A. Wierzbicki and M.T. Clandinin (Canada) 54

Development and validation of a quantitative assay for cholesterol crystal growth in human gallbladder bile
S.G. Corradini, A. Cantafora, L. Capocaccia, P. Della Guardia, L. Giacomelli and M. Angelico (Italy) 63

Incorporation of Δ^6- and Δ^5-desaturation fatty acids in liver microsomal lipid classes of obese Zucker rats fed $n-6$ or $n-3$ fatty acids
L. Ulmann, J.P. Blond, J.P. Poisson and J. Bézard (France) 73

Modulations in hepatic branch-point enzymes involved in isoprenoid biosynthesis upon dietary and drug treatments of rats
M. Andersson, J. Ericsson, E.-L. Appelkvist, S. Schedin, T. Chojnacki and G. Dallner (Sweden, Poland) 79

Platelet secretory phospholipase A_2 fails to induce rabbit platelet activation and to release arachidonic acid in contrast with venom phospholipases A_2
C. Mounier, B.B. Vargaftig, P.A. Franken, H.M. Verheij, C. Bon and L. Touqui (France, The Netherlands) 88

Polar lipids of a non-alkaliphilic extremely halophilic archaebacterium strain 172: a novel bis-sulfated glycolipid
T. Matsubara, N. Iida-Tanaka, M. Kamekura, N. Moldoveanu, I. Ishizuka, H. Onishi, A. Hayashi and M. Kates (Japan, Canada) 97

The regulation of fatty acid chain elongation in rat liver microsomes: role of fasting and CoASH
W.H. Reichelt, H.J. Grav and E.N. Christiansen (Norway) 109

Gangliosides and allied glycosphingolipids in human peripheral nerve and spinal cord
L. Svennerholm, K. Boström, P. Fredman, B. Jungbjer, A. Lekman, J.-E. Månsson and B.-M. Rynmark (Sweden) 115

Structures of glucolipids from the membrane of *Acholeplasma laidlawii* strain A-EF22. I. Glycerophosphoryldiglucosyldiacylglycerol and monoacylbisglycerophosphoryldiglucosyldiacylglycerol
J.B. Hauksson, G. Lindblom and L. Rilfors (Sweden) 124

Cholesterol condensation of α-linolenic and γ-linolenic acid-containing phosphatidylcholine monolayers and bilayers
W. Stillwell, W.D. Ehringer, A.C. Dumaual and S.R. Wassall (USA) 131

Malondialdehyde-modified high-density lipoprotein cholesterol: plasma removal, tissue distribution and biliary sterol secretion in rats
F. Guertin, S. Brunet, V. Gavino, B. Tuchweber and E. Levy (Canada) 137

Effect of fat feeding on human intestinal apolipoprotein B mRNA levels and editing
J. Lopez-Miranda, N. Kam, J. Osada, C. Rodriguez, P. Fernandez, J. Contois, E.J. Schaefer and J.M. Ordovas (USA) 143

The activation of porcine pancreatic lipase by *cis*-unsaturated fatty acids
B.A. Van Kuiken and W.D. Behnke (USA) 148

Clofibrate and other peroxisomal proliferating agents relatively specifically inhibit synthesis of ethanolamine phosphoglycerides in cultured human fibroblasts
P.C. Thorne, D.M. Byers, F.B.St.C. Palmer and H.W. Cook (Canada) 161

Superoxide generation by lipoxygenase in the presence of NADH and NADPH
P. Roy, S.K. Roy, A. Mitra and A.P. Kulkarni (USA) 171

The activities of acyl-CoA hydrolase in lysate and subcellular fractions of human blood platelets in relation to activities of acyl-CoA:1-acyl-lysophospholipid acyltransferase
A.M. Bakken, M. Farstad and H. Osmundsen (Norway) 180

Plasma membrane fatty acid-binding protein ($FABP_{pm}$) of the sheep placenta
F.M. Campbell, M.J. Gordon and A.K. Dutta-Roy (UK) 187

Short-term feeding of a diet enriched in phospholipids increases bile formation and the bile acid transport maximum in rats
F. Rioux, A. Perea, I.M. Yousef, É. Lévy, L. Malli, M.C. Carrillo and B. Tuchweber (Canada) 193

Lipoxygenase-catalyzed oxidation of chlorpromazine by hydrogen peroxide at acidic pH
M. Pérez-Gilabert, A. Sánchez-Ferrer and F. García-Carmona (Spain) 203

Reinvestigation of lipid peroxidation of linolenic acid
A. Mlakar and G. Spiteller (Germany) 209

Purification and properties of phosphatidylinositol-specific phospholipase C from *Streptomyces antibioticus*
Y. Iwasaki, S. Niwa, H. Nakano, T. Nagasawa and T. Yamane (Japan) 221

Thyroid hormone rapidly increases cholesterol 7α-hydroxylase mRNA levels in hypophysectomized rats
G.C. Ness, L.C. Pendleton and Z. Zhao (USA) 229

Tetraether lipids of *Methanospirillum hungatei* with head groups consisting of phospho-*N*,*N*-dimethylaminopentanetetrol, phospho-*N*,*N*,*N*-trimethylaminopentanetetrol, and carbohydrates
G.D. Sprott, G. Ferrante and I. Ekiel (Canada) 234

Biphasic protonation of hydrophilic cargo agents in unilamellar phospholipid vesicles: implications about cargo location
K.D. Whitburn, W.L. Porter and C.P. Dunne (USA) 243

Effects of dietary fatty acids on eicosanoid-generating capacity, fatty acid composition and chemotactic activity of rainbow trout (*Oncorhynchus mykiss*) leucocytes
I. Ashton, K. Clements, S.E. Barrow, C.J. Secombes and A.F. Rowley (UK) 253

Protein kinase C-mediated phospholipase D activity is increased by linolenic acid supplementation in NG 108-15 cells
M. Del Carmen Boyano-Adánez, D. Rodríguez, S. Aradottir, C. Alling and L. Gustavsson (Sweden, Spain) 263

Characterization of two new human apolipoprotein A-I variants: Apolipoprotein A-I Tsushima (Trp-108 → Arg) and A-I Hita (Ala-95 → Asp)
K. Araki, J. Sasaki, A. Matsunaga, Y. Takada, K. Moriyama, K. Hidaka and K. Arakawa (Japan) 272

Precursor role of branched-chain amino acids in the biosynthesis of iso and anteiso fatty acids in rat skin
H. Oku, N. Yagi, J. Nagata and I. Chinen (Japan) 279

Phytanic acid must be activated to phytanoyl-CoA prior to its α-oxidation in rat liver peroxisomes
P.A. Watkins, A.E. Howard and S.J. Mihalik (USA) 288

Molecular species of ethanolamine plasmalogens and transacylase activity in rat tissues are altered by fish oil diets
M.L. Blank, Z.L. Smith, E.A. Cress and F. Snyder (USA) 295

Lysophosphatidylcholine from white muscle of bonito *Euthynnus pelamis* (Linnaeus): involvement of phospholipase A_1 activity for its production
K. Satouchi, M. Sakaguchi, M. Shirakawa, K. Hirano and T. Tanaka (Japan) 303

Identification of a substance, previously shown to enhance mitogenesis of human lymphocytes, as the acetamide of *p*-aminobenzoic acid
B. Barbieri, N. Papadogiannakis, P. Eneroth, C. Hansson, P. Roepstorff and L.B. Olding (Sweden, Denmark) 309

Increased cholesterol esterase level by cholesterol loading of rat pancreatoma cells
Y. Huang and D.Y. Hui (USA) 317

The effects of phosphoglycerides on *Escherichia coli* cardiolipin synthase
L. Ragolia and B.E. Tropp (USA) 323

Effects of continuous tube feeding of dietary fat emulsions on eicosanoid production and on fatty acid composition during an acute septic shock in rats
T. Utsunomiya, S.R. Chavali, W.W. Zhong and R.A. Forse (USA) 333

Short Sequence-Paper

Structure of the *Pisum sativum* seed lipoxygenase gene *lox1:Ps:3*
M. Knox, C. Forster, C. Domoney and R. Casey (UK) 341

Cumulative Contents, Vol. 1214 345

Author Index 348